

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P250193

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120927 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9687.4 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

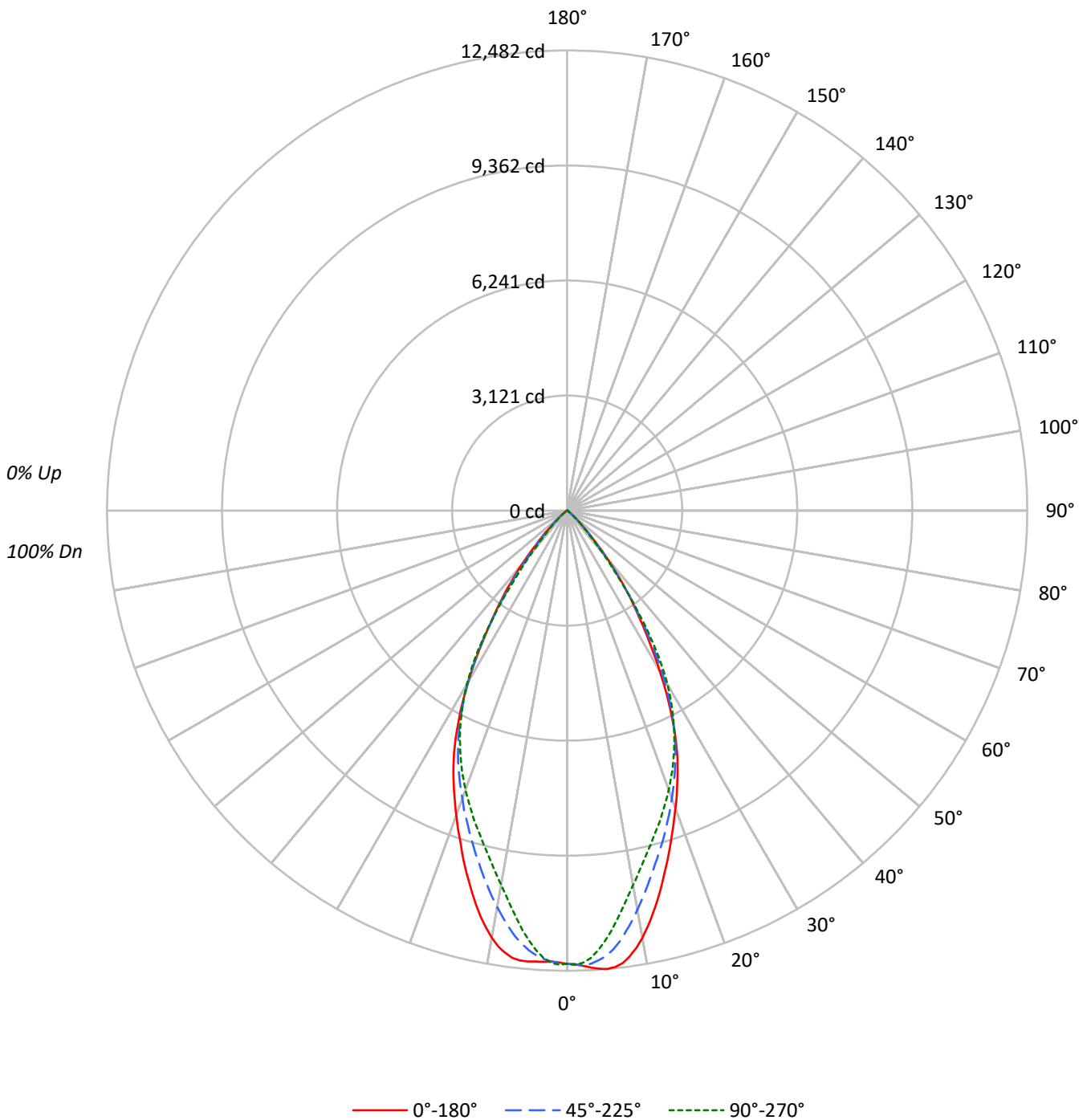
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20							
RC	80				70				50				30				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100		
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	94	94		
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87	87		
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76	76		
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71	71		
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66	66	66		
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62	62		
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58		
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55	55	55		
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52	52	52		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1116.1	11.5
10°-20°	2699.4	27.9
20°-30°	3163.8	32.7
30°-40°	2081.6	21.5
40°-50°	543.2	5.6
50°-60°	66.8	0.7
60°-70°	13.9	0.1
70°-80°	2.6	0.0
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6979.2	72.0
0°-40°	9060.8	93.5
0°-60°	9670.9	99.8
0°-90°	9687.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9687.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12294	12294	12294	12294	12294	
5°	12482	12127	11726	11968	12279	###
15°	10190	9613	9123	9613	10363	2840
25°	7000	6932	6881	6998	7258	3156
35°	3183	3255	3366	3399	3452	1993
45°	619	583	544	631	735	555
55°	48	51	57	57	54	63
65°	18	15	15	12	12	13
75°	0	3	0	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	12294.1	12294.1	12294.1	12294.1	12294.1	12294.1	12294.1	12294.1	12294.1
1°	12303.1	12321.1	12327.0	12345.0	12318.1	12300.2	12276.2	12258.2	12261.3
2°	12356.9	12365.9	12332.9	12321.1	12273.2	12258.2	12240.3	12237.3	12240.3
3°	12413.7	12395.7	12309.1	12228.4	12156.6	12147.6	12180.6	12228.4	12255.2
4°	12458.6	12410.8	12228.4	12078.9	11965.3	11956.4	12087.9	12210.4	12261.3
5°	12482.4	12395.7	12126.7	11875.6	11726.2	11783.0	11968.3	12186.4	12279.2
6°	12449.6	12321.1	11971.4	11636.6	11466.1	11540.9	11812.9	12129.8	12267.2
7°	12365.9	12201.5	11771.1	11376.4	11167.2	11283.9	11630.6	12034.0	12222.4
8°	12210.4	12013.2	11517.0	11074.6	10868.3	10999.8	11406.4	11896.5	12114.8
9°	12007.1	11789.0	11265.9	10799.6	10578.4	10733.8	11173.3	11714.3	11965.3
10°	11765.0	11531.9	10987.9	10512.7	10312.4	10458.8	10922.2	11502.0	11762.1
11°	11481.1	11256.9	10709.9	10243.7	10052.3	10195.8	10671.1	11248.0	11528.9
12°	11173.3	10966.9	10425.9	9983.6	9804.3	9941.7	10402.1	10984.9	11262.9
13°	10865.4	10659.0	10151.0	9732.5	9568.0	9699.5	10138.9	10698.0	10975.9
14°	10533.6	10345.3	9875.9	9493.3	9343.9	9469.5	9870.0	10407.9	10671.1
15°	10189.8	10040.3	9612.9	9263.1	9122.7	9242.2	9612.9	10109.0	10363.2
16°	9867.0	9729.4	9358.9	9036.0	8919.4	9015.1	9352.9	9810.2	10052.3
17°	9538.2	9412.6	9104.7	8811.8	8707.3	8799.9	9086.8	9508.3	9726.5
18°	9209.4	9104.7	8826.9	8575.8	8483.1	8566.8	8823.8	9203.4	9400.6
19°	8904.5	8808.9	8572.7	8360.4	8276.8	8351.4	8593.6	8910.4	9107.8
20°	8590.6	8512.9	8306.7	8133.3	8055.6	8124.3	8312.6	8620.5	8793.9
21°	8288.8	8220.0	8040.6	7894.1	7831.4	7888.3	8061.5	8339.5	8491.9
22°	7974.9	7936.1	7774.6	7652.0	7610.3	7646.1	7804.5	8043.6	8187.2
23°	7667.0	7631.1	7508.6	7407.0	7371.1	7407.0	7547.5	7762.6	7891.2
24°	7356.2	7317.3	7227.7	7161.9	7131.9	7161.9	7281.4	7463.7	7586.3
25°	7000.5	6994.5	6931.7	6895.8	6881.0	6913.7	6997.5	7155.9	7257.5
26°	6659.7	6641.8	6623.8	6617.8	6620.8	6638.7	6707.5	6827.1	6907.8
27°	6241.3	6268.2	6295.0	6330.9	6342.9	6357.8	6390.7	6477.3	6537.2
28°	5840.7	5891.5	5957.2	6029.0	6062.0	6062.0	6064.9	6112.7	6163.5
29°	5443.2	5496.9	5601.6	5709.2	5754.0	5748.0	5724.1	5745.0	5775.0
30°	5027.6	5096.4	5236.9	5377.4	5443.2	5419.2	5374.3	5353.5	5371.4
31°	4621.2	4689.9	4845.4	4997.7	5084.4	5057.6	4979.8	4964.8	4973.8
32°	4232.6	4301.3	4444.8	4606.2	4704.9	4669.0	4588.2	4564.3	4567.3
33°	3855.9	3909.7	4041.2	4190.7	4271.4	4262.4	4196.7	4166.8	4169.7
34°	3500.2	3545.1	3643.6	3757.3	3835.0	3832.0	3784.2	3787.2	3796.2
35°	3183.4	3207.4	3255.1	3318.0	3365.8	3392.6	3398.6	3422.5	3452.4
37.5°	2406.3	2415.2	2358.5	2295.6	2283.6	2361.4	2495.9	2612.5	2657.4
40°	1667.9	1647.0	1575.2	1464.6	1431.8	1518.5	1688.8	1853.2	1913.0
42.5°	1037.2	1028.2	983.4	899.8	869.8	920.7	1049.2	1174.7	1234.5
45°	618.8	606.7	582.9	550.0	544.1	565.0	630.7	702.4	735.3
47.5°	355.7	352.7	337.7	325.8	322.9	337.7	367.7	409.5	418.5
50°	194.3	191.4	188.3	188.3	188.3	197.2	212.3	224.2	230.2
52.5°	95.6	98.7	95.6	98.7	101.7	107.6	104.6	116.6	116.6
55°	47.8	44.9	50.8	56.8	56.8	56.8	56.8	56.8	53.8
57.5°	35.9	38.8	33.0	35.9	33.0	33.0	29.9	33.0	35.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	24.0	20.9	24.0	26.9	29.9	26.9	20.9	24.0	26.9
62.5°	11.9	11.9	11.9	17.9	26.9	20.9	17.9	15.0	15.0
65°	17.9	11.9	15.0	17.9	15.0	15.0	11.9	15.0	11.9
67.5°	9.0	15.0	9.0	6.0	9.0	11.9	9.0	6.0	6.0
70°	0.0	3.0	3.0	9.0	9.0	9.0	9.0	6.0	6.0
72.5°	3.0	3.0	3.0	6.0	3.0	6.0	3.0	3.0	6.0
75°	0.0	0.0	3.0	3.0	0.0	3.0	0.0	0.0	0.0
77.5°	3.0	0.0	3.0	3.0	0.0	0.0	0.0	3.0	0.0
80°	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)